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13. Abstract (Maximum 200 words). Climatological relationships where developed for the Northwest Atl Oceanographic Observation Data to at least 100 m were edited Digital Environmental Model (Galinity covariances were derived salinity vertical structure were tudes of the first three EOFs. original profile variance (compand salinity EOF amplitudes, dy temperature or salinity amplitudes ture amplitudes. Thus for exampment), temperature (salinity) (salinity) profile can then be derived profiles (or heights) with the salinity of the salinity of the salinity of the salinity of the salinity) (salinity) profile can then be derived profiles (or heights) with the salinity of the salinity	ich allow transformations antic, from profiles of tempe Set (MOODS). All pairs of tempe and then extended to 2000 m DEM) climatology were used red from the data set. Empirite computed from the extended The error variance for profitted over the entire data set mamic heights, and surface trudes as a function of dynales as functions of temperaturale, given a surface dynamic EOF amplitudes are derived constructed as the sum of the evaluated over all profitments.	rature and salinity of mperature and salinity properties and salinity properties as the assumed mean, and cal Orthogonal Function data set. Each profile iles reconstructed from the step-wise least-squemperatures were used to mic height (or as a function of the set	extracted from profiles extending Profiles from the Profiles from the between-decorate (EOFs) of the first three cuares regression to construct section of dynamic height as a derived from an lationships, and ding amplitudes a set.	the Navy's Master ing from the surface om the Generalized by the temperature and the temperature and ressed to the amplications of temperature and relationships: theight and surface function of temperature and the temperature and EOFs. Errors in	
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